

# Pinnacle PP 1112

Polypropylene Homopolymer

Pinnacle Polymers

PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

12 MELT FLOW HOMOPOLYMER FOR INJECTION MOLDING

Pinnacle Polymers Polypropylene 1112 is made via UNIPOL™ PP technology, which utilizes gas-phase fluidized bed reactors with a high activity catalyst system to ensure uniform physical properties and lot-to-lot consistency.

This product is intended for general-purpose injection molding such as resin furniture, closures, and consumer product applications.

The 1112 product provides:

- Excellent color and processing stability
- Good flow characteristics
- Excellent organoleptic properties
- UL Listed

Pinnacle's polypropylene, as marketed by Pinnacle Polymers, in natural, uncolored pellet form complies with appropriate requirements of CFR Title 21, Part 177, Subpart B, Section 177.1520 (c) 1.1a entitled "Olefin Polymers" of the Food Additives Amendment of 1958 to the United States Food, Drug and Cosmetic Act of 1938.

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet (English)</a> • <a href="#">Technical Information - FDA (English)</a>
UL Yellow Card <sup>2</sup>	• <a href="#">E130336-221934</a>
Search for UL Yellow Card	• <a href="#">Pinnacle Polymers</a> • <a href="#">Pinnacle PP</a>
Availability	• Europe • North America
Features	• Excellent Organoleptic Properties • Good Color Stability • Good Processing Stability • Food Contact Acceptable • Good Flow • Homopolymer
Uses	• Closures • Furniture • Consumer Applications • General Purpose
Agency Ratings	• FDA 21 CFR 177.1520(c) 1.1a • UL
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	0.900 g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12 g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.4 %	ASTM D955

Mechanical	Nominal Value Unit	Test Method
Tensile Strength <sup>4</sup>		ASTM D638
Yield, 3.20 mm, Injection Molded	34.5 MPa	
Tensile Elongation <sup>4</sup>		ASTM D638
Yield, 3.20 mm, Injection Molded	9.0 %	
Flexural Modulus - 1% Secant <sup>5</sup> (3.20 mm, Injection Molded)	1650 MPa	ASTM D790A



Impact	Nominal Value Unit	Test Method
Notched Izod Impact <sup>6</sup> 23°C, 3.20 mm, Injection Molded	32 J/m	ASTM D256
Notched Izod Impact (Area) <sup>6</sup> 23°C, 3.20 mm, Injection Molded	3.10 kJ/m <sup>2</sup>	ASTM D256
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	105 °C	ASTM D648

**Notes**

- <sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.
- <sup>2</sup> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.
- <sup>3</sup> Typical properties: these are not to be construed as specifications.
- <sup>4</sup> Type I, 51 mm/min
- <sup>5</sup> Type I, 1.3 mm/min
- <sup>6</sup> Type I

